ABSTRACT
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SWANS AND GEESE

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[111 Jefferson Park Dr., Huntington, WV 25705] *Limosa fedoa*.

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[Univ. Calgary, Calgary, AB, Canada] *Thamnophis sirtalis parietalis.*

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BOOK REVIEWS

Zweifel, Frances W. 1988. *A Handbook of Biological Illustration*, Second Edition. The University of Chicago Press, Chicago, Illinois. xvi + 137pp. Available from the publisher at $27.00 (cloth) and $9.95 (paper).

This book is intended to help the non-artist biologist produce illustrations, charts, graphs, and maps suitable for publication, and to assist the non-biologist artist who is confronted with unfamiliar scientific subjects. The handbook was first published in 1961, and this edition updates information concerning new art products, illustration techniques, and printing processes. A new section is provided on poster presentations.

The book includes information needed to create final illustrations using various materials, techniques, and illustration styles. Suggestions provided will enable the reader to proceed from the development of preliminary sketches to mounting and shipping final illustrations. Individual chapter topics include: printing processes; size and reduction of illustrations for publication; materials; the preliminary drawing; the finished drawing; preparing graphics and maps; lettering; poster sessions; photographs, plates, and projection slides; and mounting and packing illustrations. Each chapter contains useful figures and illustrations which help to simplify the concepts and techniques being discussed. The new chapter on planning, designing, and creating posters is particularly useful, since poster presentations are now a frequent occurrence at scientific meeting.

Although the chapters contain a great deal of information on techniques, methods, and materials used to crate different types of scientific illustrations, do not be misled by the short discussions. The techniques may sound easy when presented in a page or two of instructions, but the actual execution of many of these techniques, and the use of the tools, can take a fair amount of practice and experimentation. Allow time to create a satisfactory finished product.

Selected references contain useful sources for additional illustration guides, hazardous art products, and preparation of art for printing. There is a list of stores where art and equipment catalogs can be obtained, and an address to write for EssDee British Scraperboard (a must for good scratchboard drawings).

This book will be appreciated by scientists who publish, prepare poster presentations, or simply need some visual aids for slides or overhead transparencies. Even if the scientist will not be creating the final product, the information contained in this book will help him understand the possibilities and limitations of scientific illustrations and the publication process, and how to best present information in order to achieve the desired informational objectives.--Jennifer Shoemaker, U.S. Fish and Wildlife Service, National Ecology Research Center, 2627 Redwing Rd., Fort Collins, CO 80526-2899.

BOOK REVIEWS

Johnsgard, Paul A. 1988. *The Quails, Partridges, and Francolins of the World.* Oxford University Press, 200 Madison Ave., New York, NY 10016. 264pp., 23 figures, 42 distribution maps, and 127 color plates. ISBN 0-19-857193-3. Available from the publisher at $89.00 (cloth).

Paul Johnsgard's treatise describes the 134 species that make up the known partridge- and quail-like birds of the world. This work builds on his earlier descriptions of the biologies of New World quails (Johnsgard 1973). The book is indexed and organized into two sections--comparative biology and species accounts.

The five chapters of the comparative biology section discuss taxonomy and zoogeography, reproductive biology, ecology and population dynamics, ontogenetic growth and development, and adult vocalizations and non-vocal behavior. These chapters offer a very good review and synthesis of material pertaining to partridge- and quail-like birds; nearly 400 references are cited.

The species accounts include taxonomic keys. For each species, the text is organized into measurements (body and egg sizes and weights), important features for identification, general biology and ecology, social behavior, reproductive biology, evolutionary history, and status and conservation outlook. Distribution maps are provided, although in some cases these represent crude approximations. (Johnsgard points out the dearth of information for many species.)

As was the case for Johnsgard's *The Pheasants of the World* (1986), magnificent color plates depict each species, usually both sexes. Most of the plates were done by Major Henry Jones at the turn of the century, and are now in the collection of the Zoological Society of London. Johnsgard's recent publication will appeal to a spectrum of bird enthusiasts, including scientists, bird-watchers, hunters, and aviculturists. Further, *The Quails, Partridges, and Francolins of the World* calls attention to the need for more complete descriptions and more rigorous conservation of these birds, many of which occupy habitats that are being destroyed at an alarming pace.--Richard E. Warner, Illinois Natural History Survey, 607 E. Peabody, Champaign, IL 61820.

Elias, T. S., editor. 1987. *Conservation and Management of Rare and Endangered Plants.* California Native Plant Society, 909 12th St., Suite 116, Sacramento, CA 95814. 630 pp. Available from the publisher at $24.95 (paper), $45.00 (cloth).

This book is a collection of 92 separate papers that treat political, biological, ethical, and management aspects of rare and endangered plant conservation, with particular emphasis on California. The book is based on a conference held in Sacramento during November 1986—the first conference of such magnitude.

California is rich in endemic plant species (almost 50%), both relictual and recently evolved. The combination of a large number of local endemics and the United States' largest populace has given California the second largest number (after Hawaii) of candidate endangered and threatened plants. It should therefore be of great interest to the reader to discover the kinds of biological, political, and management problems that face California's Federal, State, private, and local resource managers.

California was the first state to have an extensive database on its flora (1971), and was the first to press the Federal government for protection.

The papers were provided to the editor in camera-ready format, and are organized by major topic areas: legal aspects, present and future problems, endangered habitats, survey techniques, impact of exotic introductions, case studies, ecology and population dynamics, species management, species recovery, current conservation efforts, preserve design, and educational awareness.

The treatments in the book are extensive rather than intensive. Each paper is only a few pages in length. The reader will find this a pot-pourri offering a broad range of awareness opportunities--Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

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BOOK REVIEWS

The Facts on File Dictionary of Biology, Second Edition, edited by Elizabeth Tootill (326pp., 1988) and *The Facts on File Dictionary of Marine Science*, edited by Barbara Charton with Edmund H. Tietjen, scientific advisor (325pp., 1988). Facts on File, Inc., 460 Park Avenue South, New York, NY 10016. Each available from the publisher at $19.95 (cloth).

The Facts on File Dictionary of Biology was designed to be "an important tool for students" and meet the needs of "everyone who breeds or cares for plants or animals--or who works in the field of human health . . . it will prove equally useful for physicians, nurses, animal breeders, laboratory technicians. . ." The dictionary might be useful for these people or a student in an introductory biology course, but I question how useful it might be for a professional or student wildlife biologist. I failed to find definitions for such common terms as accuracy, diversity, mortality, natality, optimal foraging, precision, recruitment, or riparian. A field-oriented biologist would be better advised to obtain a copy of *A Dictionary of Ecology, Evolution, and Systematics*, by R. J. Lincoln, G. A. Boxshall, and P. F. Clark, published by Cambridge University Press.

The Facts on File Dictionary of Marine Science, on the other hand, is a useful reference for marine science. It provides definitions for geologic and physical terms such as absolute humidity, dewpoint, light absorption, and pelagic; for various taxa of animals from abalone to Zooxanthellae; for geographical locations such as Hudson Canyon (which is in the Hudson Bay); for persons such as Saint Brendan, an Irish monk supposed to be the first European to cross the Atlantic; and miscellaneous marine topics such as fishing, FLIP (floating instrument platform), and schooner.--Nancy M. Wells, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Pl., Fort Collins, CO 80524.

Nielsen, Leon, and Robert D. Brown. 1988. *Translocation of Wild Animals*. Wisconsin Humane Society, Inc., 4151 North Humboldt Ave., Milwaukee, WI 53212. 25 tables, 39 illus., 353 pp. Available from the publisher at $19.50 (Cloth).

The stated purpose of this book is to: serve as a source of information and reference to wildlife management agencies responsible for translocation policies and procedures; be of assistance to managers considering whether to translocate animals or not, and to provide advice and guidance if the decision is affirmative; and generate interest in wildlife translocation and encourage further study of specific aspects of translocation such as disease transmission, genetic considerations, capture and release techniques, and other areas where continued scientific inquiry may significantly contribute to the success of future translocations.

This collection of papers falls into two categories -- General Principles and Guidelines, and Selected Case Studies. Much information is presented on past translocations, successful and unsuccessful. The principles and guidelines portion offers insight into problems associated with many translocations and fulfills the objectives of the book.

For the manager considering translocation and capture of animals for any purpose, two short quotes, if taken seriously, are worth the price of the book. "To be successful, translocation requires precise planning and preparation, professional expertise, and adequate funding." On capture by remote delivery of a dart containing an immobilizing agent: "Because of its dramatic appeal, this method of capture has been highly popularized and consequently misunderstood as a fairly simple procedure that can be successfully used by anyone with access to delivery equipment and drugs and minimal knowledge of their use. Nothing could be further from the truth, and many animals have been crippled or killed by workers whose ambitions to capture wildlife exceeded their ability to do so safely."

The selected case studies offer an indepth look at translocation of a few species, mostly large mammals, but also provide information that is relevant to all translocations.

This book is directed primarily to wildlife veterinarians, zoo managers, wildlife biologists, and other professionals involved in the translocation of free-ranging wild animals, but should be of interest to anyone interested in wildlife management and the welfare of animals. Wildlife biologists who only occasionally handle and translocate animals should certainly read this book--Bart W. O'Gara, U.S. Fish and Wildlife Service, Montana Cooperative Wildlife Research Unit, University of Montana, Missoula, MT 59812.

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Fuller, Errol. 1987. *Extinct Birds*. Facts on File Publications, 460 Park Avenue South, New York, NY 10016. 256pp. Available from the publisher at $35.00 (cloth).

This is an attractive and beautifully produced book, although not really of the coffee table genre. Instead, the book comprises a compendious treatment of recent (since 1960) extinct birds. The book is arranged in chapters by order and under each order there are discussions by family, and factual discussions and illustrations of each documented extinct bird. Under each chapter there are also listings of endangered species and a table of extinct subspecies. Finally, there is a discussion of hypothetical species that may or may not have existed and become extinct.

For anyone who wants to know all of the documentation and details of each extinction the book is valuable documentation. From my standpoint, there seem to be a number of drawbacks to the presentation. In several cases the systematic names used do not seem to agree with those used in the most recent American Ornithological Union checklist. For example, the Hawaiian Honeycreepers are still considered to be family Drepanididae rather than a subfamily of Fringillidae. The extinct Lesser Kona Finch is not recognized.

Another drawback is the conservatism of the work. Some species not documented for many years are not considered extinct, e.g. the Bachman's Warbler. Information is not up-to-date on others. For example, even though the book's publication date is 1987, the author was unaware that the last California Condor had been removed from the wild.

Most bothersome from an ecological point of view is the fact that extinction and endangerment of birds is not closely tied to the accelerating loss of habitats around the world. The extinction rates of birds are not discussed. Each species is discussed as if it were an isolated instance. It would have been more satisfactory to have seen the text organized by habitats and ecosystems instead of the systematic approach.

Despite these viewpoints, many ornithologists and naturalists will want their own copy of this handsomely produced book.--Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Pl., Fort Collins, CO 80524.

Williams, Lovett E., Jr., and David H. Austin. 1988. *Studies of the Wild Turkey in Florida*. Technical Bulletin No. 10, University Presses of Florida, 15 NW 15th St., Gainesville, FL 32603. xxiii + 232pp. Available from the publisher at $27.50.

Studies of the Wild Turkey in Florida summarizes 22 studies of wild turkey, *Meleagris gallopavo osceola*, from 1966 to 1982, mainly on two study areas in peninsular Florida. As the authors state, "This bulletin is written for a broad audience of biologists, conservationists, administrators, and laymen."

Capturing methods are described in detail, as are molts and plumages, sexing and aging, and other physical characteristics. Much is written about the reproductive behavior and performance of the hen, but little about the male's. The life history chapter looks at roosting, foods, movements, behavior, and other topics. One chapter is devoted to harvest management and the final discussion summarizes research and management needs.

Studies of the Wild Turkey in Florida covers a wide array of topics and contain a wealth of information. It will surely be a standard reference book for game bird management and research.--Nancy M. Wells, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Pl., Fort Collins, CO 80524.

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BOOK REVIEWS

Ali, Salim. 1988. *The Book of Indian Birds*, Eleventh Edition. Oxford University Press, Delhi. 187pp., 96 plates (74 color). Available at $29.95 (cloth) from Oxford University Press, 200 Madison Ave., New York, NY 10016.

This small book is the Indian subcontinent equivalent to *A First Guide to the Birds* by Roger Tory Peterson. Only 296 birds are illustrated and discussed--about 15% of the species in the area covered. For each species appearance, flight, calls and songs, distribution (but no maps), nesting season, nest, and eggs are described. Generally, means of distinguishing the illustrated species from similar species are not given. So one would never be too confident of one's identification without knowing about possible similar species.

In addition to the normal features of a field guide, the Hindi name for each bird is given, and there are sections on a number of facets of field identification and bird biology. I am left to conclude that this book is for an English-speaking, beginning birder.--Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Pl., Fort Collins, CO 80524.

BOOK REVIEWS

Dennis, John V. 1988. *The Great Cypress Swamps*. Louisiana State University Press, Baton Rouge, La. 142pp. Available from the publisher at $29.95 (cloth).

Cypress swamps are found throughout the southeastern and southcentral portions of the United States, extending as far north as southern Delaware and Illinois and as far west as Texas. *The Great Cypress Swamps* provides a description and detailed historical account of America's cypress swamps and serves as a guidebook to their flora, fauna, and scenic and recreational opportunities. The first seven chapters serve as a general introduction to cypress swamps, while the last twelve chapters focus in more detail on individual swamps.

Chapters 1-3 describe cypress swamps in general and the historical loss of swamps due to logging and draining for agriculture, the growth characteristics and requirements of cypress trees (and the largest and oldest specimens known), and the folklore often associated with these relatively inaccessible areas. Chapter 4 explores the variety of plant life found in cypress swamps including trees, shrubs, vines, and herbaceous vegetation. Chapter 5 describes some of the hazards associated with swamps (e.g., snakes, insects, getting lost) and precautions to take to avoid them. The next two chapters describe the variety of wildlife inhabiting cypress swamps. Chapter 6 covers wildlife that are more or less common, with sections on moths and butterflies, crustaceans, fishes, alligators, turtles, lizards, salamanders, frogs and toads, birds, and mammals. Chapter 7 describes species that are either extinct or whose numbers have been diminishing, including the Carolina parakeet, ivory-billed woodpecker, Bachman's warbler, snail kite, swallow-tail kite, short-tailed hawk, bald eagle, and wood stork. Historical accounts of these species are provided along with discussions concerning the reasons for their decline and, for species not yet extinct, any recent efforts to protect their habitat or rebuild their populations.

Chapters 8-19 describe specific cypress swamps or groups of similar swamps. Although the chapters differ in length and detail, most include discussions of history, legends and folklore, flora and fauna, problems threatening the swamp or its biota, and efforts to preserve the swamp. Most chapters include a map of the swamp and directions on how to get to various points of interest. Chapters in this section include: The Great Dismal Swamp, The Big Rivers (bottomland swamps in the coastal plain from North Carolina to Georgia), The Rice Reserves (old rice plantations in South Carolina), the Beidler Forest and the Four Hole Swamp, Carolina Bays, The Okefenokee Swamp, South Florida Swamps (including the Everglades, Big Cypress Swamp, and Corkscrew Swamp), Rivers of the Deep South (rivers flowing into the Gulf of Mexico, from the Suwannee River in the east Florida panhandle to the Pearl River that separates Mississippi and Louisiana), Down the Ohio and Mississippi (which follows a series of float trips that James Audubon made down these rivers around 1820), Reelfoot and Other Earthquake Lakes (lakes in western Kentucky and Tennessee formed during violent earthquakes in 1811), Atchafalaya Swamp and the Red River, and Vanishing Species of the Big Thicket.

The maps, location information, and descriptions of individual swamps make this a valuable guidebook for those interested in exploring the cypress swamps of the United States. The discussions of the strange geological formations of the cypress swamps, their distinctive plant and animal life, and the folklore and legends, as well as the 100 color photographs and author's personal anecdotes, make this enjoyable reading for anyone interested in this diminishing ecosystem.--David B. Hamilton, U.S. Fish and Wildlife Service, National Ecology Research Center, 2627 Redwing Road, Fort Collins, CO 80526.

Zimmerman, John L. and Sebastian T. Patti. 1988. *A Guide to Bird Finding in Kansas and Western Missouri*. University Press of Kansas, 329 Carruth, Lawrence, KS 66045. 244pp. Available from the publisher at $22.50 (cloth) and $9.95 (paper).

Another one of the growing list of "where to find" books, this small book is especially interesting to those of us native to the Kansas City area. In all, 75 self-guided tours are covered, each identified by the name of the town where the routes start (62 in Kansas and 13 in Missouri). Brief notes are also given for finding over eighty species that are considered "specialties" of the area. There is an introductory account of the various biotic communities as well as 26 well-prepared maps. Seasonal occurrence and relative abundances of over 300 species are presented by bar-graphs. All in all, it is one of the best regional guides currently available. Birders visiting the area will find it a must.--Ronald A. Ryder, Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523.

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Gilbert, Frederick F., and Donald G. Dodds. 1987. *The Philosophy and Practice of Wildlife Management*. Robert E. Krieger Publishing Company, Inc., P.O. Box 9542, Melbourne, FL 32901. xi + 279pp. Available from the publisher at $24.50 (cloth).

The stated purpose of *The Philosophy and Practice of Wildlife Management* is "to expose the preprofessional and professional wildlife biologist to concepts necessary for effective wildlife management." The authors start by briefly pointing out wildlife management issues recorded in the Bible and elsewhere throughout history (but mainly England and the North American colonies). Readers are quickly taken through the evolution of wildlife management in the United States and Canada and given a summary of current wildlife administrations and policies in those countries.

The chapter entitled "Man and Wildlife" reviews the various attitudes humans have held toward wildlife. The authors present the studies of Steven Kellerts and others to develop a profile of North American attitudes, and this chapter closes with a discussion of culture, conflict, and values in Trinidad and Tobago.

Nutrition and energetics, behavior, resource partitioning, parasites and diseases, and population dynamics are briefly discussed as the biological basis for management; however, readers are expected to be fairly familiar with such information. Likewise, the following chapter, on management systems, is also brief and assumes that the reader is knowledgeable about hunting. A short section is also included on the use of models for making regulatory decisions.

The authors approach the general issue of habitat management not by providing specific prescriptions for various species, as might be done in a more traditional approach to wildlife management, but by giving examples of various habitat evaluation schemes, such as that of Jack Ward Thomas' work in the Blue Mountains of Oregon and Washington. Under the category of land-use planning, the authors discuss planning controls such as the 404 Permit Program, purchase of property rights, and incentive programs.

Species accounts of the caribou, harp seal, beaver, black duck, ruffed grouse, and peregrine falcon are presented to illustrate the interplay of management considerations and political problems.

The authors state that the art and science of wildlife management has been primarily concerned with a progression involving five principles: protection, use of predator control, preserves, captive rearing and release, and habitat improvement. But current wildlife management is concerned with many specialized areas, and the authors present examples of protected areas, exotic species, shooting preserves and put-and-take programs, migratory animals, urban wildlife, depredation, and trapping.

The discussion of endangered species addresses CITES, protection through area preservation, protection through use, and species survival plans and reintroductions.

The chapter on environmental impact assessment (EIS) explains the background of EIS in the USA and Canada. Various methodologies and viewpoints are presented with a list of possible steps in the process. International issues are a special interest of the authors and they discuss how EIS or similar policies are used in Africa and Europe.

A chapter is devoted to international wildlife issues--the various international aid programs, policies, problems, and management issues. There is a rather detailed discussion of wildlife concerns in Africa with special emphasis on elephants.

The final chapter is the authors' attempt to "predict the future role of the wildlife manager and the changes to which he/she will be exposed or will help bring about." They discuss training of wildlife biologists, management and research needs, and the importance of communicating with the public.

The book is not exhaustive on any of the topics discussed, but provides a readable overview of the current state of wildlife management and policy with useful bibliographies for further reading.--Nancy M. Wells, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Pl., Fort Collins, CO 80524.

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BOOK REVIEWS

Zeveloff, S. I. 1988. *Mammals of the Intermountain West*. University of Utah Press, Salt Lake City. xxiv + 365pp. Available from the publisher at $40.00 (cloth) or $19.95 (paper).

This is an interesting book, as at first glance it appears to be (yet) another compendium of mammals for, in this case, a very mammalogically diverse region. A second and more intensive glance, however, reveals this book is, to a large extent, a synthesis of previous summaries and prompts questions about the extent to which it is desirable or necessary for such compendia to rely on the original literature. The three sources especially acknowledged (p. xxi) by the author are Whitaker's *The Audubon Society Field Guide to North American Mammals*, *Mammals of the Northern Great Plains* by Jones et al., and the *Mammalian Species* series published by the American Society of Mammalogists.

The strengths of the book are that it provides a recent and comprehensive listing of the mammals of the intermountain West. Range maps, extrapolated from Hall (1981), are provided for all species and appear generally accurate, although the shading legend (p. 249) for the gray wolf is reversed. The author usefully discusses his definition of "intermountain West" and provides additional information on the four provinces (Colorado Plateau, Rocky Mountain, Great Basin, and Snake River Plains) composing the region. Although sources are not cited in text, each chapter has its own references section and these is a list of general references at the end of the book. There is a brief, but familiar, presentation of mammalian evolution and characteristics followed by a more interesting discussion of mammal distributions in the region and the factors influencing those distributions. There is an index to subjects, scientific, and vernacular names.

Although the book is touted as a field guide there are no keys and the range maps are not detailed enough to answer all distributional questions. Subspecies are neither discussed nor mapped. The 58 color and black-and-white line drawings by Farrell Collett, claimed by the author to represent a portfolio of outstanding wildlife art (a claim whose veracity is best left to the individual reader), are, in any case, not sufficient to identify all 148 native species the avid naturalist might encounter in the region. According to the author, the "substantive way in which this book differs from similar ones is in the attention it gives to the life history, evolution, and behavioral ecology of many species." Not surprisingly, these are the author's own research interests and indeed many of the species accounts contain such information. Whether sufficient information is included to make a substantive difference is a judgement call. Among the general references, Hoffmeister's (1986) *Mammals of Arizona* should be included.

Professional mammalogists may use the book occasionally, but in general will prefer the original sources the author used in writing the book. Amateur naturalists may find the book of more value. In either case, I recommend the paper version.--Michael A. Bogan, U.S. Fish and Wildlife Service, National Ecology Research Center, 1300 Blue Spruce Dr., Fort Collins, CO 80524.

Cade, Tom J., James H. Enderson, Carl G. Thelander, and Clayton M. White, editors. 1988. *Peregrine Falcon Populations: Their Management and Recovery*. The Peregrine Fund, Inc., 5666 West Flying Hawk Lane, Boise, ID 83709. 949pp. Available from the publisher at $45.00 (cloth) + $3.75 postage in the U.S.A.

This volume will undoubtedly be the bible on the status and management of the Peregrine Falcon for many years to come. It contains eighty-one chapters, most based upon papers presented at a three-day meeting held in November, 1985, in Sacramento, CA, and attended by over 500 biologists and raptor specialists. It is a follow-up of an earlier meeting held in Madison, WI, in 1965 and summarized in *Peregrine Populations: Their Biology and Decline* (Joseph J. Hichey, ed., 1969). The 1988 proceedings is much more optimistic in tone than the 1969 version. Peregrine populations have made remarkable recoveries in many parts of the world. Individual chapters are cited in the December, 1988, edition of *Wildlife Review*. The Peregrine Fund and the editors are commended for publishing such a well-written, carefully edited, reasonably priced book.--Ronald A. Ryder, Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523.

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BOOK REVIEWS

Wilcox, Douglas H., editor. 1988. *Interdisciplinary Approaches to Freshwater Wetland Research*. Michigan State University Press, Michigan. v + 163pp. ISBN 0-87013-257-1.

This handsomely bound and well written volume contains a collection of eleven refereed articles that were presented at a 1986 conference on Science in the National Parks. The thesis of the book is to describe "the importance of incorporating results from a number of scientific disciplines into the interpretation of wetland functions and processes." The collected articles represent examples of how paleoecology, sedimentology, stratigraphy, ground and surface water hydrology, water chemistry, and plant and animal ecology have been applied to wetland research questions. Five of the eleven articles focus on research conducted at Indiana Dunes National Lakeshore. Many of the important relationships among physical, chemical, and biological processes that govern or influence the occurrence, distribution, or functioning of wetland systems are illustrated. The book would be of particular value to land and water managers, students, and researchers interested in broadening their perspective of wetland ecology.--Lee S. Ischinger, U.S. Fish and Wildlife Service, National Ecology Research Center, 2627 Redwing Road, Fort Collins, CO 80526-2899.

Ansell, W. F. H., and R. J. Dowsett. 1988. *Mammals of Malawi: An Annotated Checklist and Atlas*. The Trendrine Press, Cornwall, Great Britain. 223pp.

The mammal fauna of Malawi, formerly known as Nyasaland in southcentral Africa, is relatively unknown compared to several of its neighbors. There are recent lists for adjacent Mozambique (Smithers and Tello, 1976), Zambia (Ansell, 1978), and Zimbabwe (Smithers and Wilson, 1979). Other nearby areas are covered by Kingdon's (1971-82) volumes on East African mammals and by recent works on southern African mammals (e.g. Smithers, 1983). The most recent compilation for Malawi is that of Sweeney (1959), so this new work is an important addition to our knowledge of the mammals of that country.

The Introduction includes explanatory comments on physical features and population of Malawi, zoogeography, systematics, sources of records, and details of the arrangement of the systematic accounts. There is a short chapter on mammal habitats followed by a chapter on conservation of mammals in Malawi. The authors note that only one species, the wildebeest *Connochaetes taurinus johnstoni*, is extirpated in Malawi, although most of the larger species have become greatly reduced in range and numbers and are restricted to protected or remote places. Nine such areas, either parks or game reserves, are briefly described.

The systematic list, telegraphically written, occupies the bulk of the book and provides information on synonymy, subspecies, specimens in museums, other records and localities, habitat and habits, general comments, and taxonomy of the 188 species included as established in Malawi. The authors give detailed reasons for excluding some species and note several species that--while still unconfirmed--probably occur in the country. There is an annotated gazetteer that should be of considerable use to students, an exhaustive references section, a list of orders and families, and indices to scientific and English names. Eight maps of the country are included, as are range maps for all species; for the larger species the maps include distribution pre- and post-1975.

Although there are no keys to the taxa, no figures, and little information on ecology of the included species, what impressed me most was the documentation provided by the authors. The book is the size of most field guides, yet it is thoroughly researched and comprehensive. Most specialists in African mammals will want to acquire a copy of this book for reference.--Michael A. Bogan, U.S. Fish and Wildlife Service, National Ecology Research Center, 1300 Blue Spruce Dr., Fort Collins, CO 80524.

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As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

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